

SIEMENS

MODULARIS Uro Plus

SP

Upgrade Instructions

Upgrade of shock wave system LLSH 140 (C plus)

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Print No.: SPL1-130.892.01.01.02

Replaces: n.a.

English

Doc. Gen. Date: 08.03

Document revision level

The document corresponds to the version/revision level effective at the time of system delivery. Revisions to hardcopy documentation are not automatically distributed.

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Units affected

All LIHOSTAR MODULARIS systems can be retrofit with the shock wave head LLSH140 (C plus)

Reason for the upgrade

The shock wave head LLSH 140 features an increased penetration depth.

Prerequisites

- Software version as of VA00J
- New focus phantom

Special tools / documents

Service Instructions	SPL1-130.061.01...
Shock Wave Pressure and Position Control	SPL2-120.074.01...
Shock Wave Pressure Test Unit	30 95 408 J1008
Adapter for C- head	98 17 347 J1008

Order information

The upgrade kit is available.

11 58 018 Upgrade kit (material number)

Contents of the upgrade kit

The upgrade kit **11 58 018** contains the following parts:

Item	Quantity	Material no.	Name
1	1	70 41 358	Shock wave head LLSH 140
2	1	47 78 754	Adjustment adapter complete
3	1	55 31 558	Software VA00J
4	1		Upgrade instructions
5	2		Operating instructions

Tab. 1

Work steps

NOTE

Only the general work process for the upgrade is described. The detailed work steps are described in the corresponding chapters of the Service Instructions.

- Move the support arm into the horizontal position.
- Remove the unit cover.
- Empty the cooling circuit and the coupling circuit.
- Remove the shock wave head cover and adjustment adapter. This adjustment adapter must not be used with the shock wave head LLSH 140.
- Remove shock wave head including coupling bellows.
- Install the new shock wave head.
- Install the new coupling bellows. Due to its increased penetration depth, the coupling bellows for the shock wave head LLSH 140 has one additional fold.
- Install the adjustment adapter supplied.
- Remove the EMC cover from the circuit board D3.
- On circuit board D3 set DIP switches S1.1 to ON and S1.2 to OFF. The DIP switches are located above the service switch S2.
- Reinstall the EMC cover for circuit board D3.
- Switch the system on.
- Execute download for host software.
- Fill the cooling circuit and coupling circuit. Watch out for any leaking connections and repair them if necessary.
- Check the isocenter.
- Replace the covers.
- Perform the system function test.

Final check

- Perform the pressure measurement according to instructions SPL2-120.074.01....

Customer information

The operating instructions supplied with the system must be handed over to the customer.

Changes to previous versions

n.a.

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